

BAB 5

SIMPULAN

5.1. Simpulan

Dari data penelitian yang telah diinterpretasikan, dapat ditarik kesimpulan :

- Carbomer sebagai bahan *buccal* film berpengaruh secara signifikan terhadap *swelling index*, *adhesion time*, serta uji pelepasan. Carbomer meningkatkan *swelling index*, *adhesion time* dan menurunkan uji pelepasan obat. Sedangkan propilen glikol, menurunkan *adhesion time*, meningkatkan uji pelepasan, meningkatkan *swelling index* dan memperbesar nilai fluks yang diperoleh. Interaksi konsentrasi carbomer dan propilen glikol memberikan pengaruh menurunkan pelepasan obat, menurunkan *adhesion time*.
- Berdasarkan program optimasi *Design expert*® diperoleh formula terpilih menggunakan polimer carbomer dengan konsentrasi 1% dan konsentrasi propilen glikol 1% yang akan menghasilkan respon *swelling index* 1,981, *adhesion time* 247,206 menit, dan nilai fluks pelepasan 59,428 $\mu\text{g}/\text{cm}^2/\text{jam}$.

5.2. Alur Penelitian Selanjutnya

Dilakukan penelitian terhadap beberapa formula optimum terpilih, yang kemudian dilanjutkan dengan uji penetrasi film *buccoadhesive* terbutalin sulfat.

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